



Patent Application
Attorney Docket No. PC23006A

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By

(Signature of person mailing)
Janice Denison

(Typed or printed name of person)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Laurent Audoly, et al. :

APPLICATION NO.: 09/977,761 : Examiner: Criares, Theodore

FILING DATE: 10/15/2001 : Group Art Unit: 1617

TITLE: EP4 RECEPTOR INHIBITORS TO TREAT :
RHEUMATOID ARTHRITIS

Hon. Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97 ET SEQ.

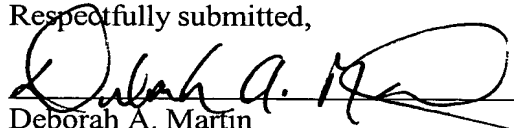
Applicant(s) herein make(s) available to the U.S. Patent and Trademark Office a copy of PTO-FB-A820 which lists the references cited by the applicant(s), copies of which are enclosed.

The Examiner is requested to consider carefully the complete text of these references in connection with the examination of the above-identified application in accord with 37 C.F.R. § 1.104(a). It is believed the Examiner will concur with applicant's belief that the subject matter presently claimed is neither anticipated nor rendered obvious by the foregoing references.

It is requested that the references listed on the attached form PTO-FB-A820 be included in the "References Cited" portion of any patent issuing from this application (M.P.E.P. § 1302.12).

Date: June 24th, 2003

Respectfully submitted,


Deborah A. Martin
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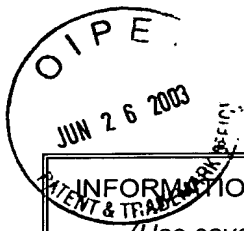
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APPLICANT Laurent P. Audoly, et al.										FILING DATE 10/15/2001				GROUP 1617			
U.S. PATENT DOCUMENTS																	
EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
FOREIGN PATENT DOCUMENTS																	
DOCUMENT NUMBER									DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION				
													YES	NO			
	EP	1	1	2	1	9	3	9	08/08/01	International	A61K	45/06					
	GB	2	3	3	0	3	0	7	04/21/99	International	A61K	31/557					
	WO	9	8	5	5	4	6	8	10/12/98	International	C07D	263/32					
	WO	9	9	4	7	4	9	7	09/23/99	International	C07C	315/00					
	WO	0	0	1	6	7	6	0	03/30/00	International	A61K	31/00					
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	WO	0	0	2	0	3	9	8	04/13/00	International	C07D	225/08					
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	WO	0	1	1	9	8	1	9	03/22/01	International	C07D	409/04					
	WO	0	1	4	2	2	8	1	06/14/01	International	C07L	7/04					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)																	
			Imaizumi, Y., et al., 46 th Annual Meeting, Orthopaedic Research Society, March 12-15, 2000, Orlando, Florida														
			Kurihara, Y., et al., Clin. Exp. Immunol., 'Up-regulation of prostaglandin E receptor EP2 and EP4 subtypes in rat synovial tissues with adjuvant arthritis,' Vol. 123: 323-330, 2001														
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EXAMINER																	
DATE CONSIDERED																	
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DOCUMENT NUMBER										DATE		COUNTRY		CLASS		SUBCLASS		TRANSLATION	
																		YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)																			
						Miyaura, C., et al., <u>The Journal of Biological Chemistry</u> , 'Impaired bone resorption to prostaglandin E ₂ in prostaglandin E receptor EP4 Knockout mice,' Vol. 275(26): 19819-19823, 2000													
						Myers, L., et al., <u>Arthritis & Rheumatism</u> , 'The genetic ablation of cyclooxygenase 3 prevents the development of autoimmune arthritis,' Vol. 43(12): 2687-2693, 2000													
						Sakuma, Y., et al., <u>Infection and Immunity</u> , 'Impaired bone resorption by lipopolysaccharide in vitro in mice deficient in the prostaglandin E receptor EP4 subtype,' Vol. 68(12): 6819-6825, 2000													
						Sakuma, Y., et al., <u>Journal of Bone and Mineral Research</u> , 'Crucial involvement of the EP4 subtype of prostaglandin E receptor in osteoclast formation by proinflammatory cytokines and lipopolysaccharide,' Vol. 15(2): 218-227, 2000													
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						Ueno, A., et al., <u>Biochemical Pharmacology</u> , 'Major roles of prostanoid receptors IP and EP ₃ in endotoxin-induced enhancement of pain perception,' Vol. 62: 157-160, 2001													
						Zurier, R., et al., <u>Nature</u> , 'Effect of prostaglandin E ₁ on adjuvant arthritis,' Vol. 234: 304-305, 1971													
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